

WHAT IS CLAIMED IS:

- 1 1. A vibrating screen assembly which comprises:
2 a frame having a pair of opposed tubular sides and a pair of opposed tubular ends,
3 each said side and each said end having a planar surface;
4 an upstanding lip extending vertically from each said planar surface to form a rim
5 enclosure;
6 a ledge extending inwardly from said opposed sides;
7 a slot in at least said tubular sides;
8 a gasket that may be press fit into said slot and held therein; and
9 at least one screen cloth supported on said frame and positioned thereon by said rim
10 enclosure wherein said screen cloth is secured to said frame.

- 1 2. A vibrating screen assembly as set forth in Claim 1 including a slot in said tubular
2 ends which aligns with said slot in said tubular sides.

- 1 3. A vibrating screen assembly as set forth in Claim 1 wherein said at least one screen
2 cloth is bonded to a perforated plate and wherein said perforated plate rests on said frame and is
3 positioned thereon by said rim enclosure.

- 1 4. A vibrating screen assembly as set forth in Claim 1 wherein said tubular cross
2 supports are welded to said opposed tubular sides.

1 5. A vibrating screen assembly as set forth in Claim 1 including a plurality of said
2 screen cloths.

1 6. A vibrating screen assembly as set forth in Claim 1 wherein said sides and said ends
2 are cut to size from extruded lengths.

1 7. A vibrating screen assembly as set forth in Claim 6 wherein said sides and said ends
2 are fabricated from aluminum.

1 8. A vibrating screen assembly as set forth in Claim 3 wherein said screen cloths are
2 bonded to said perforated plate by heat and pressure.

1 9. A vibrating screen assembly as set forth in Claim 3 wherein said perforated plate and
2 said screen cloths are secured to said frame by adhesive.

1 10. A vibrating screen assembly as set forth in Claim 1 wherein said slot is in an
2 underside of said sides and said ends opposed to said planar surface and forms a continuous channel.

1 11. A vibrating screen assembly as set forth in Claim 1 wherein said elastomeric gasket
2 is elastomeric, compressible and resilient.

1 12. A vibrating screen assembly as set forth in Claim 1 wherein said elastomeric gasket
2 is fabricated from neoprene.

1 13. A vibrating screen assembly as set forth in Claim 1 wherein said gasket is fabricated
2 from polyethylene.

1 14. A vibrating screen assembly as set forth in Claim 1 wherein said gasket is cut to size
2 from extruded lengths.

1 15. A vibrating screen assembly as set forth in Claim 1 wherein said elastomeric gasket
2 has a lower surface to rest on a vibrating shaker, a reduced portion having a width less than a width
3 of said slot, and an upper portion having a width larger than said width of said slot.

1 16. A vibrating screen assembly which comprises:
2 a continuous frame of a pair of side tubes and a pair of end tubes, each said tube
3 having a planar surface;

4 a lip extending vertically from said planar surface to form a rim enclosure;

5 a ledge extending inwardly from said side tubes;

6 a slot in said continuous frame;

7 an elastomeric gasket mechanically locked in said slot without adhesive or fasteners;

8 and

9 a perforated plate with at least one screen cloth thereon positioned within said rim
10 enclosure and secured to said planar surface.

1 17. A vibrating screen assembly as set forth in Claim 16 including a plurality of tubular
2 cross supports resting on said ledge and connected to said leg.

1 18. A vibrating screen assembly as set forth in Claim 16 wherein said side tubes and said
2 end tubes are each extruded and cut in lengths to form said sides and ends.

1 19. A vibrating screen assembly as set forth in Claim 16 wherein each said side tube has
2 a side wall perpendicular to said planar surface, wherein said ledge extends perpendicularly from
3 said side wall.

1 20. A vibrating screen assembly as set forth in Claim 16 wherein said slot is in an
2 underside of said continuous frame opposed to said planar surface and forms a continuous channel.

1 21. A vibrating screen assembly as set forth in Claim 16 wherein said gasket is
2 elastomeric, compressible and resilient.

1 22. A vibrating screen assembly as set forth in Claim 16 wherein said gasket is cut to size
2 from extruded lengths.

1 23. A vibrating screen assembly as set forth in Claim 15 wherein said gasket is neoprene.

1 24. A vibrating screen assembly as set forth in Claim 15 wherein said gasket is
2 polyethylene.

1 25. A vibrating screen assembly as set forth in Claim 15 wherein said gasket has a lower
2 surface to rest on a vibrating shaker, a reduced portion having a width less than a width of said slot,
3 and an upper portion having a width larger than said width of said slot.